

Abarna_day94

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#include <stdio.h>
#include <stdlib.h>
```

```
#define MAX_N 500
```

```
void multiply(int N, int result[MAX_N][MAX_N], int matrix[MAX_N][MAX_N]) {
    int temp[MAX_N][MAX_N] = {0};
    for (int i = 0; i < N; i++) {
        for (int j = 0; j < N; j++) {
            for (int k = 0; k < N; k++) {
                temp[i][j] += result[i][k] * matrix[k][j];
            }
        }
    }
    for (int i = 0; i < N; i++) {
        for (int j = 0; j < N; j++) {
            result[i][j] = temp[i][j];
        }
    }
}
```

```
void power(int N, int matrix[MAX_N][MAX_N], int k) {
    int result[MAX_N][MAX_N] = {0};
    for (int i = 0; i < N; i++) {
        result[i][i] = 1;
    }
    while (k > 0) {
        if (k % 2 == 1) {
            multiply(N, result, matrix);
        }
        multiply(N, matrix, matrix);
        k /= 2;
    }
    for (int i = 0; i < N; i++) {
        for (int j = 0; j < N; j++) {
            matrix[i][j] = result[i][j];
        }
    }
}
```

```
int main() {
    int N, M;
    scanf("%d", &N);

    int g[MAX_N][MAX_N];
    for (int i = 0; i < N; i++) {
```

```

        for (int j = 0; j < N; j++) {
            scanf("%d", &g[i][j]);
        }
    }

    scanf("%d", &M);

    for (int q = 0; q < M; q++) {
        int k, x;
        scanf("%d %d", &k, &x);
        x--;

        int temp[MAX_N][MAX_N];
        for (int i = 0; i < N; i++) {
            for (int j = 0; j < N; j++) {
                temp[i][j] = g[i][j];
            }
        }

        if (k > 0) {
            power(N, temp, k);
        }

        int count = 0;
        int result[MAX_N];
        for (int i = 0; i < N; i++) {
            if (temp[x][i] > 0) {
                result[count++] = i + 1;
            }
        }

        printf("%d\n", count);
        if (count == 0) {
            printf("-1\n");
        } else {
            for (int i = 0; i < count; i++) {
                printf("%d%c", result[i], (i == count - 1) ? '\n' : ' ');
            }
        }
    }

    return 0;
}

```